

#### ABSTRACT OF THE DISCLOSURE

In an automatic train stop system in which a track circuit 3 is divided into track circuit sections 1T, 2T and 3T, and a digitized train control information telegram (ATS telegram) 8 is transmitted through the track circuit sections on carriers having different frequencies, a carrier sensor 12 mounted on a train 5 receives a carrier in the track circuit 3 and detects a track circuit boundary 31 by detecting a level change of the carrier, whereby an onboard system grasps the position thereof and controls the train 5 based on the information of the ATS telegram 8.